

IN THE CLAIMS:

Please cancel Claims 39, 40, 42-50, 56, and 58, without prejudice or disclaimer of subject matter. Please amend Claims 38 and 55 and add new Claims 59-68, as indicated below. The following is a complete listing of claims and replaces all prior versions and listings of claims in the present application.

Claims 1 - 37 (canceled).

Claim 38 (currently amended): An image processing system in which an image input apparatus and ~~an image output~~ a printing apparatus are connected via a serial bus,

wherein the image input apparatus comprises:

an input means for inputting unit configured to input JPEG coded image data of a first format;

a determination means for determining unit configured to determine whether or not to convert the JPEG coded image data of the first format into image data of a second format for printing using the printing apparatus;

a first conversion means for converting unit configured to convert the JPEG coded image data of the first format into the image data of the second format for printing based on a determination result of said determination unit; and

a first communication means for transmitting unit configured to transmit the JPEG coded image data of the first format or the image data of the second format for printing to the image output printing apparatus, and

an obtaining unit configured to obtain type information of the printing apparatus, in response to an ON operation of the image processing system or a connection between the image input apparatus and the printing apparatus; wherein said determination unit determines whether or not to convert the JPEG coded image data into the image data for printing based on the type information obtained by said obtaining unit, and

wherein the ~~image output printing~~ apparatus comprises:

a second communication means for receiving unit configured to receive the JPEG coded image data or the image data for printing transmitted from the image input apparatus;

a holding means for temporarily holding unit configured to hold the received the JPEG coded image data or the image data for printing in a buffer having a predetermined capacity;

a second conversion means for unit configured to, if the convert JPEG coded-image data held in the buffer is image data of the first format, converting the image data into image data of the second format for printing; and

~~output means for sequentially outputting a printing unit configured to print an image based on the image data of the second format for printing held in the buffer or converted by said second conversion unit[[,]]~~

~~wherein a conversion of image data performed by each of the first conversion means and the second conversion means includes a color correction process, a decompression process, and a conversion process, and~~

~~wherein the second conversion means converts image data in accordance with the conversion process performed by the first conversion means.~~

Claims 39 - 50 (canceled).

Claim 51 (previously presented): The system according to Claim 38, wherein the serial bus is a bus compatible with or in compliance with an IEEE 1394 standard.

Claim 52 (previously presented): The system according to Claim 38, wherein the serial bus is a bus compatible with or in compliance with a USB standard.

Claims 53 - 54 (canceled).

Claim 55 (currently amended): A control method of an image processing system in which an image input apparatus and ~~an image output~~ a printing apparatus are connected via a serial bus, the ~~image output~~ printing apparatus having a buffer, the method comprising:

~~in the image input apparatus,~~

an input step of inputting JPEG coded image data to the image input apparatus of a first format;

an obtaining step of obtaining type information of the printing apparatus, in response to an ON operation of the image processing system or a connection between the image input apparatus and the printing apparatus;

a determination step of determining whether or not to convert the JPEG coded image data ~~of the first format~~ into image data ~~of a second format~~ for printing by the printing apparatus based on the type information obtained in said obtaining step;

a first conversion step of converting the JPEG coded image data ~~of the first format~~ into the image data ~~of the second format~~ for printing based on a determination result in said determination step; ~~and~~

a transmission step of transmitting the JPEG coded image data ~~of the first format~~ or the image data ~~of the second format~~ for printing to the ~~image output~~ printing apparatus; ~~and~~

~~in the image output apparatus,~~

a reception step of receiving in the printing apparatus the JPEG coded image data or the image data for printing transmitted from the image input apparatus;

a holding step of ~~temporarily~~ holding the ~~received~~ image data ~~[[in]]~~ received in said reception step into the buffer, which has a predetermined capacity;

a second conversion step of, ~~if the~~ converting JPEG coded image data held in the buffer is image data of the first format, converting the image data into image data of the second format for printing; and

~~an output a print step of sequentially outputting~~ printing an image based on the image data of the second format, for printing held in the buffer or converted in said second conversion step

~~wherein a conversion of image data performed in each of the first conversion step and the second conversion step includes a color correction process, a decompression process, and a conversion process, and~~

~~wherein the second conversion step includes converting the image data in accordance with the conversion process performed in the first conversion step.~~

Claims 56 - 58 (canceled).

Claim 59 (new): An image processing system in which an image input apparatus and a printing apparatus are connected via a serial bus,

wherein the image input apparatus comprises:

a memory configured to store JPEG coded image data;

a first conversion unit configured to convert the JPEG coded image data into image data for printing using the printing apparatus; and

a first communication unit configured to transmit the JPEG coded image data or the image data converted by said first conversion unit to the printing apparatus, and

wherein the printing apparatus comprises:

a second communication unit configured to receive the JPEG coded image data or the image data transmitted from the image input apparatus;

a second conversion unit configured to convert the JPEG coded image data into image data for printing, in a case where the image data received by said second communication unit is the JPEG coded image data;

a printing unit configured to print an image based on the image data for printing; and

a control unit configured to determine which of the image input apparatus and the printing apparatus converts the JPEG coded image data into the image data for printing, wherein in a case that said control unit determines that the image input apparatus converts the JPEG coded image data into the image data for printing, said control unit transmits a request for data conversion of the JPEG coded image data to the image input apparatus, and said first conversion unit converts the JPEG coded image data into the image data for printing in response to the request.

Claim 60 (new): A system according to Claim 59, wherein the printing apparatus includes a buffer for storing image data received by said second communication unit, and said control unit transmits the request to the image input apparatus in accordance with a status of the buffer in which the image data received by said second communication unit is stored.

Claim 61 (new): A control method of an image processing system in which an image input apparatus and a printing apparatus are connected via a serial bus, the method comprising:

- a first conversion step of converting JPEG coded image data into image data for printing using the printing apparatus;

- a first communication step of transmitting the JPEG coded image data or the image data converted in said first conversion step from the image input apparatus to the printing apparatus;

- a second communication step of receiving the JPEG coded image data or the image data transmitted from the image input apparatus;

- a second conversion step of converting the JPEG coded image data into image data for printing, in a case where the image data received in said second communication step is the JPEG coded image data;

- a printing step of printing an image based on the image data for printing;

and

a control step of determining which of the image input apparatus and the printing apparatus converts the JPEG coded image data into the image data for printing, wherein in a case that it is determined in said control step that the image input apparatus converts the JPEG coded image data into the image data for printing, a request for data conversion of the JPEG coded image data is transmitted to the image input apparatus in said control step, and the JPEG coded image data is converted into the image data for printing in said first conversion step, in response to the request.

Claim 62 (new): An image input apparatus for connecting with a printing apparatus via a serial bus, the printing apparatus receives image data from an apparatus to which the printing apparatus is connected, and converts JPEG coded image data into image data for printing to print an image, in a case that the received image data is the JPEG coded image data, the image input apparatus comprising:

an input unit configured to input image data;

an obtaining unit configured to obtain type information of the printing apparatus, in response to the power on of the printing apparatus or a connection between the image input apparatus and the printing apparatus;

a determination unit configured to determine whether or not to convert the JPEG coded image data into image data for printing using the printing apparatus, based on the type information obtained by said obtaining unit;



a conversion unit configured to convert the JPEG coded image data into the image data for printing based on a determination result by said determination unit; and

a communication unit configured to transmit the JPEG coded image data or the image data for printing to the printing apparatus.

Claim 63 (new): A control method of an image input apparatus for connecting with a printing apparatus via a serial bus, the printing apparatus receives image data from an apparatus to which the printing apparatus is connected, and converts JPEG coded image data into image data for printing to print an image, in a case that the received image data is the JPEG coded image data, the method comprising:

an input step of inputting image data;

an obtaining step of obtaining type information of the printing apparatus, in response to the power on of the printing apparatus or a connection between the image input apparatus and the printing apparatus;

a determination step of determining whether or not to convert the JPEG coded image data into image data for printing using the printing apparatus, based on the type information obtained in said obtaining step;

a conversion step of converting the JPEG coded image data into the image data for printing based on a determination result in said determination step; and

a communication step of transmitting the JPEG coded image data or the image data for printing to the printing apparatus.

Claim 64 (new): A printing apparatus for connecting with an image input apparatus via a serial bus, the image input apparatus receives capability information from an apparatus to which the image input apparatus is connected, and determines whether or not to convert JPEG coded image data into image data for printing, based on the capability information, the printing apparatus comprising:

a communication unit configured to transmit type information of the printing apparatus to the image input apparatus, in response to the power on of the image input apparatus or a connection between the printing apparatus and the image input apparatus;

a reception unit configured to receive image data transmitted from the image input apparatus;

a holding unit configured to hold the image data received by said reception unit in a buffer;

a conversion unit configured to convert the JPEG coded image data into image data for printing, in a case that the image data stored in the buffer is the JPEG coded image data; and

a printing unit configured to print an image based on the image data for printing.

Claim 65 (new): A control method of a printing apparatus for connecting with an image input apparatus via a serial bus, the image input apparatus receives

capability information from an apparatus to which the image input apparatus is connected, and determines whether or not to convert JPEG coded image data into image data for printing, based on the capability information, the method comprising:

- a communication step of transmitting type information of the printing apparatus to the image input apparatus, in response to the power on of the image input apparatus or a connection between the printing apparatus and the image input apparatus;

- a reception step of receiving image data transmitted from the image input apparatus;

- a holding step of holding the image data received in said reception step in a buffer;

- a conversion step of converting the JPEG coded image data into image data for printing, in a case that the image data stored in the buffer is the JPEG coded image data; and

- a printing step of printing an image based on the image data for printing.

Claim 66 (new): A printing apparatus capable of communicating with an image input apparatus that can convert JPEG coded image data into image data for printing, the printing apparatus comprising:

- a communication unit configured to receive image data from the image input apparatus;

a conversion unit configured to convert JPEG coded image data into the image data for printing, in a case that the image data received by said communication unit is the JPEG coded image data;

a printing unit configured to print an image based on the image data for printing;

a conversion unit configured to convert the JPEG coded image data into image data for printing, in a case that the image data stored in the buffer is the JPEG coded image data;

a printing unit configured to print an image base on the image data for printing; and

a control unit configured to determine which of the image input apparatus and the printing apparatus converts the JPEG coded image data into the image data for printing, wherein in a case that said control unit determines that the image input apparatus converts the JPEG coded image data into the image data for printing, said control unit transmits a request for data conversion of the JPEG coded image data to the image input apparatus.

Claim 67 (new): A printing apparatus according to Claim 66, further comprising a buffer for storing image data transmitted from the image input apparatus, wherein said control unit transmits the request in accordance with a status of the buffer in which the image data received by said second communication unit is stored.

Claim 68 (new): A control method of a printing apparatus capable of communicating with an image input apparatus that can convert JPEG coded image data into image data for printing, the method comprising:

- a communication step of receiving image data from the image input apparatus;

- a conversion step of converting JPEG coded image data into the image data for printing, in a case that the image data received in said communication step is the JPEG coded image data;

- a printing step of printing an image based on the image data for printing;

- a conversion step of converting the JPEG coded image data into image data for printing, in a case that the image data stored in the buffer is the JPEG coded image data;

- a printing step of printing an image base on the image data for printing; and

- a control step of determining which of the image input apparatus and the printing apparatus converts the JPEG coded image data into the image data for printing, wherein in a case that it is determined in said control step that the image input apparatus converts the JPEG coded image data into the image data for printing, a request for data conversion of the JPEG coded image data is transmitted from the printing apparatus to the image input apparatus in said control step.